

Title (en)  
WET OXIDATION OR OZONIZATION PROCESS

Title (de)  
NASSOXYDATIONS- ODER OZONIERUNGSVERFAHREN

Title (fr)  
PROCEDE D'OXYDATION PAR VOIE HUMIDE OU OZONATION

Publication  
**EP 1345680 A1 20030924 (FR)**

Application  
**EP 01995732 A 20011218**

Priority  
• FR 0104038 W 20011218  
• FR 0016672 A 20001220

Abstract (en)  
[origin: WO0249751A1] The invention concerns an oxidising method by wet process oxidation or ozonization of a liquid contained in a reactor. The gaseous roof (20) is sucked into the liquid, the part undissolved in the liquid is recuperated in the gaseous roof. The stirring means (2) generates a liquid flux immediately proximate to the end of the conduit (3) emerging into the liquid and generates a gas/liquid dispersion in the zone (15), wherein the liquid reacts with the gas, then transports and ejects said dispersion at its periphery, such that the gas is dissolved in the liquid in the zone (16) extending from the stirring means (2) to the surface of the liquid. The method is more particularly suitable for all oxidising processes using large amounts of oxygen or ozone. It is in particular used for oxidising paper-mill liquors.

IPC 1-7  
**B01J 10/00**; **B01J 19/00**; **B01J 19/18**; **B01J 8/22**; **B01F 3/04**; **C02F 1/72**

IPC 8 full level  
**B01F 3/04** (2006.01); **B01J 10/00** (2006.01); **B01J 19/00** (2006.01); **C02F 1/72** (2006.01); **C02F 1/78** (2006.01); **B01F 7/00** (2006.01); **C02F 1/02** (2006.01); **C02F 11/08** (2006.01)

CPC (source: EP US)  
**B01F 23/2331** (2022.01 - EP US); **B01F 23/23311** (2022.01 - EP); **B01F 23/23312** (2022.01 - EP); **B01F 23/23352** (2022.01 - EP); **B01F 23/23363** (2022.01 - EP); **B01F 23/2368** (2022.01 - EP US); **B01F 23/237612** (2022.01 - EP US); **B01F 23/237613** (2022.01 - EP US); **B01J 19/006** (2013.01 - EP US); **B01J 19/0066** (2013.01 - EP US); **C02F 1/72** (2013.01 - EP US); **C02F 1/78** (2013.01 - EP US); **B01F 23/23311** (2022.01 - US); **B01F 23/23312** (2022.01 - US); **B01F 23/23352** (2022.01 - US); **B01F 23/23363** (2022.01 - US); **B01F 27/115** (2022.01 - EP US); **B01J 2219/00768** (2013.01 - EP US); **C02F 1/02** (2013.01 - EP US); **C02F 11/08** (2013.01 - EP US); **C02F 2101/18** (2013.01 - EP US); **C02F 2103/28** (2013.01 - EP US); **C02F 2301/066** (2013.01 - EP US); **Y10S 210/912** (2013.01 - EP US)

Citation (search report)  
See references of WO 0249751A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0249751 A1 20020627**; AT E280637 T1 20041115; AU 2645902 A 20020701; CA 2431942 A1 20020627; CA 2431942 C 20091117; DE 60106785 D1 20041202; EP 1345680 A1 20030924; EP 1345680 B1 20041027; ES 2232681 T3 20050601; FR 2818160 A1 20020621; FR 2818160 B1 20030307; PT 1345680 E 20050228; US 2002110508 A1 20020815; US 6517729 B2 20030211

DOCDB simple family (application)  
**FR 0104038 W 20011218**; AT 01995732 T 20011218; AU 2645902 A 20011218; CA 2431942 A 20011218; DE 60106785 T 20011218; EP 01995732 A 20011218; ES 01995732 T 20011218; FR 0016672 A 20001220; PT 01995732 T 20011218; US 78415001 A 20010216